BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains in Yelahanka old Town areas Gandhinagara SC-ST areas and surroundings areas in ward no: 01 Yelahanka Sub Division

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
							Estimation Cost.Rs		9900000.00
1	18.27 KSRRB M200-15.2. Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cementconcrete, wood work, steel work, including T&P and scaffolding wherevernecessary, sorting the dismantled material, disposal of unserviceablematerial and stacking the serviceable material with all liftsas per specifications. iii)Dismantling Stone Masonry. B. Rubble Stone masonry in cement mortar.No. KBS Pg No 140 ,Item No 18.27,and Pg No.136, Item No.17.4,17.1 (5km lead = 57+2*1.28X5)								
	Culvert								
	Sugappa layout								
	3rd cross	cum	1	7.1	2	0.95	13.49		
	3rd cross	cum	2	6.5	1.8	0.95	22.23		
	3rd cross road	cum	1	7	1.8	0.95	11.97		
	2nd cross	cum	2	9.00	1.80	0.95	30.78		
	1st cross road	cum	1	7.50	1.80	0.95	12.825		
		cum	1	8.50	1.80	0.95	14.535		
	Appayyanna Beedi	cum	1	6.00	1.80	0.95	10.26		
	Drain								
	Sugappa layout								
	3rd cross	cum	1	39	0.9	0.65	22.815		
	Main Road(SBI road)	cum	2	62	0.9	0.75	83.7		
	Basic rate							351.00	
	Area weightage 6%							21.06	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						**222.61**	**441.86**	**98360.25**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27-I.No.5.33)								
	Drain cover slab								
	Sugappa layout								
	3rd cross	sqm	2	67	0.75		100.5		
	1st cross road	sqm	2	199.00	0.75		298.5		
	Appayyanna Beedi	sqm	2	90.00	0.75		135		
					Sub Total		**534.00**		
	Culvert Cover Slab								
	1st C main	Sqm	1	8.30	1.35		11.205		
					Sub Total		**11.21**		
					Total		**545.21**		
	Deduct 30% for Missing/Damaged						**163.56**		
							370.44		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Consider 30% Qnty for Removing & Refixing						111.13		
	Basic rate							105.00	
	Area weightage 6%							6.3	
	Total						111.13	111.30	12368.94
3	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80								
	Earthwork Excavation								
	New Drain								
	Sugappa layout								
	3rd cross	cum	1	39	0.75	0.8	23.4		
	Parallel Road to Railway Track	cum	1	60.00	0.90	0.90	48.6		
	1st C main	cum	1	45.00	0.90	0.90	36.45		
	2nd Main Road	cum	1	35.00	0.90	0.85	26.775		
	Main Road(SBI road)	cum	2	62.00	0.90	1.05	117.18		
	New Culvert								
	Sugappa layout								
	3rd cross	cum	1	7.1	2	1.1	15.62		
	3rd cross	cum	2	6.5	1.8	1.1	25.74		
	2nd cross	cum	2	9.00	1.80	1.1	35.64		
	1st cross road	cum	1	7.50	1.80	1.1	14.85		
		cum	1	8.50	1.80	1.1	16.83		
	Appayyanna Beedi	cum	1	6.00	1.80	1.1	11.88		
	1st C main	cum	1	8.30	1.35	1.10	12.3255		
	Desilting								
	Drain								
	Sugappa layout								
	3rd cross	cum	1	39	0.45	0.5	8.775		
	1st cross road	cum	2	199.00	0.45	0.50	89.55		
	Appayyanna Beedi	cum	2	90.00	0.45	0.50	40.5		
	Basic rate							130.00	
	Area weightage 6%							7.80	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						524.12	207.60	108806.38
4	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	RCC Drain								
	Sugappa layout								
	3rd cross	cum	1	39	0.75	0.15	4.3875		
	Parallel Road to Railway Track	cum	1	60.00	0.9	0.15	8.10		
	1st C main	cum	1	45.00	0.9	0.15	6.08		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	2nd Main Road	cum	1	35.00	0.9	0.15	4.73		
	Main Road(SBI road)	cum	2	62.00	0.9	0.15	16.74		
	RCC Culvert								
	Sugappa layout								
	3rd cross	cum	1	7.1	2	0.15	2.13		
	3rd cross	cum	2	6.5	1.8	0.15	3.51		
	2nd cross	cum	2	9.00	1.80	0.15	4.86		
	1st cross road	cum	1	7.50	1.80	0.15	2.025		
		cum	1	8.50	1.80	0.15	2.295		
	Appayyanna Beedi	cum	1	6.00	1.80	0.15	1.62		
	1st C main	cum	1	8.30	1.35	0.15	1.68075		
	Basic rate							5115.00	
	Area weightage 6%							306.90	
	Total						**58.15**	**5421.90**	**315274.00**
5	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	Drain								
	Sugappa layout								
	3rd cross								
	Bottom slab	cum	1	39	0.75	0.15	4.39		
	Drain walls	cum	2	39	0.15	0.50	5.85		
	Parallel Road to Railway Track	cum							
	Bottom slab	cum	1	60.00	0.90	0.15	8.1		
	Drain walls	cum	2	60.00	0.15	0.6	10.8		
	1st C main								
	Bottom slab	cum	1	45.00	0.90	0.15	6.075		
	Drain walls	cum	2	45.00	0.15	0.75	10.125		
	2nd Main Road	cum							
	Bottom slab	cum	1	35.00	0.90	0.15	4.725		
	Drain walls	cum	2	35.00	0.15	0.75	7.875		
	Main Road(SBI road)	cum							
	Bottom slab	cum	2	62.00	0.90	0.15	16.74		
	Drain walls	cum	4	62.00	0.15	0.9	33.48		
					Sub total		**108.16**		
	Drain wall								
	1st cross road	cum	4	199.00	0.15	0.2	23.88		
	Corporation Bank								
	RHS	cum	2	135	0.15	0.15	6.075		
	LHS	cum	2	75.00	0.15	0.15	3.375		
					Sub total		**33.33**		
	Culvert								
	Sugappa layout								

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	3rd cross								
	bottom slab	cum	1	7.1	2	0.2	2.84		
	walls	cum	2	7.1	0.2	0.5	1.42		
	3rd cross								
	bottom slab	cum	2	6.5	1.8	0.2	4.68		
	walls	cum	4	6.5	0.2	0.5	2.6		
	2nd cross								
	bottom slab	cum	2	9.00	1.80	0.2	6.48		
	walls	cum	4	9.00	0.20	0.5	3.6		
	1st cross road								
	Bottom slab	cum	1	7.50	1.80	0.2	2.7		
	walls	cum	2	7.50	0.20	0.5	1.5		
	1st cross road								
	bottom slab	cum	1	8.50	1.80	0.2	3.06		
	walls	cum	2	8.50	0.20	0.5	1.7		
	Appayyanna Beedi	cum							
	bottom slab	cum	1	6.00	1.80	0.2	2.16		
	walls	cum	2	6.00	0.20	0.5	1.2		
	1st C main								
	bottom slab	cum	1	8.30	1.35	0.2	2.241		
	walls	cum	2	8.30	0.20	0.5	1.66		
					Sub total		37.84		
	Basic rate							6670.00	
	Area weightage 6%							400.20	
	Total						**179.33**	**7070.20**	**1267888.36**
6	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
	For Drain	Cum					108.16		
		kg	Steel assumed 60Kg/Cum of				6489.45		
		tonne					6.49		
	For Drain wall	Cum					33.33		
		kg	Steel assumed 60Kg/Cum of Concrete				1999.80		
		tonne					2.00		
	For Culvert	Cum					37.84		
		kg	Steel assumed 90Kg/Cum of Concrete				3405.69		
		tonne					3.41		
	Basic rate							68233	
	Area weightage 6%							4093.98	
	Total						**11.89**	**72326.98**	**860325.09**
7	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
			From item No. 3				534.00		
	Provide 30 % Qnty new Precast slab for missing and Damaged	sqm					**160.20**		
	Cororation Bank Road	Sqm	1	57.00	0.90		51.30		
	2nd Main Road	Sqm	2	79.50	0.90		143.1		
	New Drain								
	Sugappa layout								
	3rd cross	sqm	1	39	0.75		29.25		
	Parallel Road to Railway Track	Sqm	1	60.00	0.90		54.00		
	1st C main	Sqm	1	45.00	0.90		40.5		
	2nd Main Road	Sqm	1	35.00	0.90		31.5		
	Main Road(SBI road)	Sqm	2	62.00	0.90		111.6		
	Data rate							**2337.00**	
	Total						**621.45**	**2337.00**	**1452328.65**
8	Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
	Culvert cover Slab								
			From item No. 2				11.21		
	Provide30 % Qnty new Precast slab for missing and Damaged	sqm					**3.36**		
	New Cover Slab								
	Sugappa layout								
	3rd cross	sqm	1	7.1	2		14.2		
	3rd cross	sqm	2	6.5	1.8		23.4		
	2nd cross	sqm	2	9.00	1.80		32.4		
	1st cross road	sqm	1	7.50	1.80		13.5		
	1st cross road	sqm	1	8.50	1.80		15.3		
	Appayyanna Beedi	sqm	1	6.00	1.80		10.8		
	Data rate							**5418.00**	
	Total						**112.96**	**5418.00**	**612025.41**
9	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	1st cross road(LHS &RHS)	Cum	2	199.00	0.40	0.15	23.88		
	Corporation Bank	cum	2	184.00	0.4	0.15	22.08		
	Main Road(SBI road)	cum	2	62.00	0.40	0.15	7.44		
	Basic rate							5422.00	
	Area weightage 6%							325.32	
	Total						**53.40**	**5747.32**	**306906.89**

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
10	Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	1st cross road(LHS & RHS)	Nos	2	199.00			398.00		
	Corporation Bank	Nos	2	184			368		
	Main Road(SBI road)	Nos	2	62.00			124		
	Total length						890.00		
	No of Kerb Stones				Total Length/0.45		1977.78		
	Sub Total						**1977.78**		
	Basic rate							408.00	
	Area weightage 6%							24.48	
	Total						**1977.78**	**432.48**	**855349.33**
11	KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.180. Iitem no.24.1 of KPWD S.R Bangalore Circle 2018-2019)								
	1st cross road(LHS & RHS)	sqm	2	199.00	0.40		159.20		
	Corporation Bank	sqm	2	184.00	0.4		147.2		
	Main Road(SBI road)	sqm	2	62.00	0.4		49.6		
	Basic rate							80.00	
	Area weightage 6%							4.80	
	Total						**356.00**	**84.80**	**30,188.80**
12	KSRRB 300-46. Scarifying by mechanical means stone metal crust 50mm to 100mm thick with pick axes along with premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3.No. 19.52 page no.146								
	Parallel Road to Railway Track								
		Sqm	1	10	16.00		160.00		
		Sqm	1	8	10.00		80.00		
		Sqm	1	11.00	4.00		44.00		
	Basic rate							39.00	
	Area weightage 6%							2.34	
	Total						**284.00**	**41.34**	**11740.56**
13	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3(P.No.146,								
	MES School Road	Sqm	1	104	4		416		
	Parallel Road to Railway Track								
		Sqm	1	13	3.8		49.4		
		Sqm	1	15	10		150		
	Parallel Road to Railway Track	Sqm	1	37.00	4.60		170.2		
	Basic rate							39.00	
	Area weightage 6%							2.34	

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Total						785.60	41.34	32476.70
14	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)								
	Appayyanna Beedi	Sqm	1	90	4		351		
	MES School Road	Sqm	1	104	4		416		
	Parallel Road to Railway Track	Sqm							
		Sqm	1	10	16		160.00		
		Sqm	1	8	10		80.00		
		Sqm	1	11	4.00		44.00		
		Sqm	1	13	3.80		49.4		
		Sqm	1	15	10.00		150		
	Parallel Road to Railway Track	Sqm	1	37	4.60		170.2		
	Basic rate							6.00	
	Area weightage 6%							0.36	
	Total						1420.60	6.36	9035.02
15	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202(P.No.140- I.No.18.47) & Pg No.136, Item No.17.4,17.1 (5km lead = 57+2*1.28X5)								
	Appayyanna Beedi	Cum	1	90	4	0.2	70.2		
	Basic rate							899.00	
	Area weightage 6%							53.94	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						70.20	1022.74	71796.35
16	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.3)								
	Appayyanna Beedi	Cum	1	90	4	0.15	52.65		
	MES School Road	Cum	1	104	4	0.15	62.4		
	Parallel Road to Railway Track								
		Cum	1	10	16	0.15	24.00		
		Cum	1	8	10	0.15	12.00		
		Cum	1	11	4	0.15	6.60		
		Cum	1	13	4	0.15	7.41		
		Cum	1	15	10	0.15	22.5		
	Parallel Road to Railway Track	Cum	1	37	5	0.15	25.53		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Basic rate							5102.00	
	Area weightage 6%							306.12	
	Total						**213.09**	**5408.12**	**1152416.29**
17	Cement concrete pavement.Construction of un-reinforced plain cement concrete for pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008.mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire charges of machineries,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1								
	Appayyanna Beedi	Cum	1	90.00	3.90	0.15	52.65		
	MES School Road	Cum	1	104	4	0.15	62.4		
	Parallel Road to Railway Track								
		Cum	1	10	16.00	0.15	24.00		
		Cum	1	8	10.00	0.15	12.00		
		Cum	1	11.00	4.00	0.15	6.60		
		Cum	1	13	3.8	0.15	7.41		
		Cum	1	15	10	0.15	22.5		
	Parallel Road to Railway Track	Cum	1	37.00	4.60	0.15	25.53		
	Basic rate							4916.00	
	Area weightage 6%							294.96	
	Total						**213.09**	**5210.96**	**1110403.47**
								Grand Total	**8307690.47**
								DPR Charges (1% of estimated cost)	99000.00
								Project management And Consultancy Charges(1% of estimated cost)	99000.00
								GST Charges (12% of estimated cost)	996922.86
								KRIDL Charges (4% of estimated cost)	396000.00
								Miscellenious and rounding	1,386.67
								Total Amount	**9900000.00**
								RUPEES NINETY NINE LAKHS ONLY	

Technical Sanction
Accorded For RS 99 Lakhs only
Head of A/C P 3727
CER NO 103 Dt 28.10.19
IA CE (YNK)

Administrative Sanction for Rs. 99 Lakhs
Ninety Nine lakhs only
is accorded under head P-3727
Chief minister Nava nagarothana
grant 2018-19
Registered as CE No Subject
to conditions contained in Memo
No EE/YNK/AS/25/2018-20 28/10/2019
Executive Engineer

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP